|         |   |  | Der'a Detime 1 9 IIIN 1009  |  |  |  |  |  |  |
|---------|---|--|---|--|--|--|--|--|--|
| FORM I  | PTO-139   | 0 (Modified)  U.S. DE TENT OF COMMERCE PATENT AND TRADEMARK OFFICE.  |   |  |  |  |  |  |  |
| (KEV II | TF  | RANSMITTAL LESSER TO THE UNITED STATES   | 191.0002  |  |  |  |  |  |  |
|         |   | DESIGNATED/ELECTED OFFICE (DO/EO/US)   | U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR  |  |  |  |  |  |  |
|         |   | CONCERNING A FILING UNDER 35 U.S.C. 371  | то 🛭 9 смд 1578   |  |  |  |  |  |  |
| INTE    |   | IONAL APPLICATION NO. INTERNATIONAL FILING DATE  | PRIORITY DATE CLAIMED   |  |  |  |  |  |  |
|         | ]   | PCT/US96/20577 . 19 December 1996  | 21 December 1995  |  |  |  |  |  |  |
|         |   | NVENTION  TED THERAPEUTIC OR DIAGNOSTIC AGENTS AND METH  | IODS OF MAKING AND USING SAME   |  |  |  |  |  |  |
|         |   | T(S) FOR DO/EO/US  |   |  |  |  |  |  |  |
|         | -   | Edwin L.   |   |  |  |  |  |  |  |
|         | -   | ffrey W.   |   |  |  |  |  |  |  |
| Appli   | icant l   | nerewith submits to the United States Designated/Elected Office (DO/EO/U   | S) the following items and other information:                                       |  |  |  |  |  |  |
| 1.      | $\boxtimes$   | This is a FIRST submission of items concerning a filing under 35 U.S.C.  | 371.  |  |  |  |  |  |  |
| 2.      |   | This is a SECOND or SUBSEQUENT submission of items concerning a  | _   |  |  |  |  |  |  |
| 3.      | ×   | This is an express request to begin national examination procedures (35 U examination until the expiration of the applicable time limit set in 35 U.S. | S.C. 371(f)) at any time rather than delay C. 371(b) and PCT Articles 22 and 39(1). |  |  |  |  |  |  |
| 4.      | $\boxtimes$   | A proper Demand for International Preliminary Examination was made by  | the 19th month from the earliest claimed priority date.                             |  |  |  |  |  |  |
| 5.      | $\boxtimes$   | A copy of the International Application as filed (35 U.S.C. 371 (c) (2))   |   |  |  |  |  |  |  |
|         |   | a. $\square$ is transmitted herewith (required only if not transmitted by the $\square$  | nternational Bureau).   |  |  |  |  |  |  |
|         |   | b. 🛮 has been transmitted by the International Bureau.   |   |  |  |  |  |  |  |
|         |   | c. \( \times \) is not required, as the application was filed in the United States F   | Receiving Office (RO/US).   |  |  |  |  |  |  |
| 6.      |   | A translation of the International Application into English (35 U.S.C. 371(c)(2)).   |   |  |  |  |  |  |  |
| 7.      |   | A copy of the International Search Report (PCT/ISA/210).   |   |  |  |  |  |  |  |
| 8.      | $\boxtimes$   | Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))  |   |  |  |  |  |  |  |
|         | a.   are transmitted herewith (required only if not transmitted by the International Bureau). |  |   |  |  |  |  |  |  |
|         |   | b.  have been transmitted by the International Bureau.   |   |  |  |  |  |  |  |
|         |   | c. have not been made; however, the time limit for making such am  | endments has NOT expired.   |  |  |  |  |  |  |
|         |   | d. A have not been made and will not be made.  |   |  |  |  |  |  |  |
| 9.      |   | A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  |   |  |  |  |  |  |  |
| 10.     |   | An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).  |   |  |  |  |  |  |  |
| 11.     |   | A copy of the International Preliminary Examination Report (PCT/IPEA/409).   |   |  |  |  |  |  |  |
| 12.     |   | A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).                          |   |  |  |  |  |  |  |
| - 11    | tems 1  | 3 to 18 below concern document(s) or information included:   |   |  |  |  |  |  |  |
| 13.     |   | An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  |   |  |  |  |  |  |  |
| 14.     |   | An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.                                      |   |  |  |  |  |  |  |
| 15.     |   |  |   |  |  |  |  |  |  |
|         |   | A SECOND or SUBSEQUENT preliminary amendment.  |   |  |  |  |  |  |  |
| 16.     |   | A substitute specification.  |   |  |  |  |  |  |  |
| 17.     |   | A change of power of attorney and/or address letter.   |   |  |  |  |  |  |  |
| 18.     | ⊠<br>SZ   |  |   |  |  |  |  |  |  |
| 19.     | ×   | ☑ Other items or information:  |   |  |  |  |  |  |  |
|         |   | Sequence listing, sequence listing diskette, check in the amount of \$1,7 EL031816978US and return postcard.   | 702.00, Certificate of Express Mailing No.  |  |  |  |  |  |  |

| U.S. APPLICATION NO. (IF KNOWN  TO BE ASSIGNED   | 37 CFR  | INTERNATIONAL APPLICATION NO PCT/US96/20577 |  |        | ATTORNEY'S DOCKET NUMBER 19191.0002 |                |  |  |  |
|--|---|---|--|--------|-------------------------------------|----------------|--|--|--|
| 20. The following fees are su  | ıbmitted:.  |   |  |        | CALCULATION                         | S PTO USE ONLY |  |  |  |
| BASIC NATIONAL FEE ( 37 CFR  |   |   |  |        |                                     |                |  |  |  |
| ☐ Search Report has been prepar  | 0   | •   |  |        |                                     |                |  |  |  |
| ☑ International preliminary exar   |   |   |  |        |                                     |                |  |  |  |
| ☐ No international preliminary of but international search fee pa  | 0   |   |  |        |                                     |                |  |  |  |
| ☐ Neither international prelimin international search fee (37 C)   | 0   |   |  |        |                                     |                |  |  |  |
| ☐ International preliminary exar and all claims satisfied provisi  | 00  |   |  |        |                                     |                |  |  |  |
| ENTER A  | PPROPRI   | ATE BASIC FEE AM                            | OUNT =   |        | \$720.00                            |                |  |  |  |
| Surcharge of \$130.00 for furnishing t months from the earliest claimed prio   | he oath or declarity date (37 C   | aration later than $\Box$ 2 FR 1.492 (e)).  | 0 🛛 30   | 0      | \$130.00                            |                |  |  |  |
| CLAIMS NUMBE   | R FILED   | NUMBER EXTRA                                | RATE   |        |                                     |                |  |  |  |
| Total claims 55  | - 20 =  | 35  | x \$22.0   | 0      | \$770.00                            |                |  |  |  |
| Independent claims 4   | - 3=  | 1   | x \$82.0   | 0      | \$82.00                             |                |  |  |  |
| Multiple Dependent Claims (check i   | A DOME CALCINA  |   |  | \$0.00 |                                     |                |  |  |  |
|  |   | ABOVE CALCULAT                              |  |        | \$1,702.00                          | и              |  |  |  |
| Reduction of 1/2 for filing by small of must also be filed (Note 37 CFR 1.9,   | 1.27, 1.28) (ch   | eck if applicable).                         | tement   |        | \$0.00                              |                |  |  |  |
|  |   | SUB'  | TOTAL  | _=_    | \$1,702.00                          |                |  |  |  |
| Processing fee of \$130.00 for furnish months from the earliest claimed prio   | Processing fee of \$130.00 for furnishing the English translation later than 20 30 months from the earliest claimed priority date (37 CFR 1.492 (f)). |   |  |        |                                     |                |  |  |  |
|  |   | TOTAL NATIONAL                              | L FEE  | =      | \$1,702.00                          |                |  |  |  |
| Fee for recording the enclosed assign accompanied by an appropriate cover  |   | \$0.00                                      |  |        |                                     |                |  |  |  |
|  | \$1,702.00  | · · · · · · · · · · · · · · · · · · ·       |  |        |                                     |                |  |  |  |
|  |   |   |  |        | Amount to be:<br>refunded           | \$             |  |  |  |
|  |   |   |  |        | charged                             | \$             |  |  |  |
| A check in the amount of \$1,702.00 to cover the above fees is enclosed.  Please charge my Deposit Account No. in the amount of to cover the above fees. A duplicate copy of this sheet is enclosed.   |   |   |  |        |                                     |                |  |  |  |
| The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 14-0629 A duplicate copy of this sheet is enclosed.  NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR |   |   |  |        |                                     |                |  |  |  |
| 1.137(a) or (b)) must be filed and g   | ranted to resto   | re the application to pending s             | status.  |        | 4.0                                 |                |  |  |  |
| SEND ALL CORRESPONDENCE T  | O:  |   | Ma   | بدر    | 8. 8 Lill                           | <u> </u>       |  |  |  |
| Mary L. Miller NEEDLE & ROSENBERG, P.C. 127 Peachtree Street, N.E., Suite 1 Atlanta, GA 30303, US 404-688-0770   | <b>200</b>  |   | SIGNATURE  Mary L. Miller  NAME  39,303  REGISTRATION NUMBER |        |                                     |                |  |  |  |
|  |   | 19 June 1998                                |  |        |                                     |                |  |  |  |
|  |   | DATE  |  |        |                                     |                |  |  |  |

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